OIPE JC10 NOV 05 2003 PATENT & TRADEMARK OFFICE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.	:	10/685,152
Applicant (s)	:	Mark F. Sonnenschein et al.
Filed	:	October 14, 2003
TC/A.U.	:	Unknown
Examiner	:	Unknown
Title	:	ORGANOBORANE AMINE COMPLEX POLYMERIZATION INITIATORS AND POLYMERIZABLE COMPOSITIONS
Docket No.	:	61623B
Customer No.	:	00109

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL WITH SUFFICIENT POSTAGE IN AN ENVELOPE ADDRESSED TO: ASSISTANT COMMISSIONER FOR PATENTS, WASHINGTON, DC 20231, ON:

November 3, 2003
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Mildred McKenzie
PRINT OR TYPE NAME OF PERSON SIGNING CERTIFICATE

Mildred McKenzie
SIGNATURE OF PERSON SIGNING CERTIFICATE

November 3, 2003
DATE OF SIGNATURE

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to Applicant's duty of disclosure under 37 CFR §1.56, the Examiner's attention is directed to the information identified in the attached Form PTO 1449.

The cited U.S. patents and patent application publications are listed on the PTO-1449. A copy of the cited foreign patent documents and non-patent literature are enclosed herewith. The Examiner is requested to review each reference and formulate his/her own understanding thereof.

Respectfully submitted,

Norman L. Sims
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FORM 1449

SHEET 1 OF 13

INFORMATION DISCLOSURE STATEMENT

(Use Several Sheets if necessary)

ATTY DOCKET NO.	SERIAL NO.
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APPLICANT	
Sonnenschein, et al.	
FILING DATE	GROUP
October 14, 2003	unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE *IF APPROPRIATE*
		3,819,447	06/25/1974	Dalibor, et al.	156	330	
		4,552,604	11/12/1985	Green	156	246	
		4,705,838	11/10/1987	Goel	528	48	
		4,746,725	5/24/1988	Evans, et al.	528	370	
		5,106,928	04/21/1992	Skoultchi, et al.	526	196	
		5,250,228	10/05/1993	Baigrie, et al.	252	511	
		5,286,821	02/15/1994	Skoultchi	526	196	
		5,344,890	09/06/1994	Miyazono, et al.	525	326.5	
		5,376,746	12/27/1994	Skoultchi	526	196	
		5,420,223	05/30/1995	Johnson	528	91	
		5,539,070	07/23/1996	Zharov, et al.	526	198	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES	TRANSLATION NO
		0 651 002 A2	05/03/1995	Europe			X	
		96/19179	06/27/1996	PCT			X	
		01/44311 A1	06/21/2001	PCT			X	

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

		Journal of Applied Polymer Science, vol. 43, (1991) pp.2115-2121"Grafting of Methyl Methacrylate onto Silk Fibers Initiated by Tri-*n*-Butylborane" M. Tsukada, et al.
		Journal of Polymer Science, vol. 6, Pt. 2, (1968) pp.3157-62 "Vinyl Monomer Polymerization Mechanism in the Presence of Trialkylboranes" J. Grotewold, et al.
		Journal of Polymer Science, vol. 61, (1962) pp. 241-261, Bailey and Kokle et al.

EXAMINER | DATE CONSIDERED

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		5,599,856	02/04/1997	Gardner	523	453	
		5,616,796	04/01/1997	Pocius, et al.	564	9	
		5,621,143	04/15/1997	Pocius	564	8	
		5,674,941	10/07/1997	Cho, et al.	525	102	
		5,679,458	10/21/1997	Cho, et al.	428	412	
		5,684,102	11/04/1997	Pocius, et al.	526	198	
		5,686,544	11/11/1997	Pocius	526	196	
		5,721,281	02/24/1998	Blount	521	50	
		5,795,657	08/18/1998	Pocius, et al.	428	516	
		5,807,910	09/15/1998	Tseng, et al.	523	428	
		5,817,376	10/06/1998	Everaerts, et al.	427	483	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES	NO
		98/17694	4/30/98	WO	C08F	4/52		
		97/07171	2/27/97	WO	C09J	43/00		
		97/07151	2/27/97	WO	C08G	18/63		
		99/64475	12/16/99	WO	C08F	4/52		

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

		Derwent AN 1996-484098, SU 1457392A1, Dodonov et al.
		Derwent AN 1997-010377, SU 1609117A1, Dodonov et al.
		Derwent AN 1997-064052, SU 162491A1, Dodonov et al.

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		5,837,155	11/17/1998	Inagaki, et al.	216	18	
		5,859,155	01/12/1999	Furihata, et al.	525	531	
		5,872,197	02/16/1999	Deviny	526	192	
		5,883,208	03/16/1999	Deviny	526	198	
		5,990,036	11/23/1999	Deviny	502	162	
		5,994,484	11/30/1999	Pocius	526	196	
		6,008,308	12/28/1999	Pocius	526	196	
		6,027,813	02/22/2000	Deviny	428	422	
		6,093,778	07/25/2000	Pocius	526	196	
		5,690,780	11/25/97	Zharov et al.	156	332	
		4,426,243	1/17/84	Briggs	156	307.3	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES	TRANSLATION NO

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

		Journal of Applied Polymer Science, Vol. 10, (1966), pp. 523-534, "Proposed Mechanism for the Curing of Epoxy Resins with Amine-Lewis Acid Complexes or Salts
		Plastics Technical Section, Dr. Gordon M. Kline, pp. 149, 150, 152, 154, 155, 158, 160, 186 (1964)
		Modern Synthetic Reactions, Herbert O. House, pp. 786 (1972)

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE *IF APPROPRIATE*
		5,691,065	11/25/97	Zharov et al.	428	421	
		5,204,386	4/20/93	Ersun-Hallsby et al.	423	443	
		3,275,611	9/27/66	Mottus et al.	260	80.5	
		5,718,977	2/17/98	Pocius	428	422	
		5,681,910	10/28/97	Pocius	526	198	
		5,143,884	9/1/92	Skoultchi et al.	502	160	
		5,310,835	5/10/94	Skoultchi et al.	526	198	
		5,690,780	11/25/97	Zharov et al.	156	332	
		5,935,711	8/10/99	Pocius et al.	428	421	

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES	NO

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

		Derwent, 99-010842/02, DE 19738208-A1, Tseng T. et al.
		Derwent 87-331368/47, J62236-878-A, Sumitomo Elec Ind. KK
		Derwent 88-202092/29, J63139-969-A, Kanegafuchi Chem KK

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FORM 1449

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Sonnenschein, et al.	
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE *IF APPROPRIATE*
		6,383,655	5/7/02	Moren	428	522	
		5,952,409	9/14/99	Boardman et al.	524	185	
		4,638,092	1/20/87	Ritter	568	1	
		5,034,464	7/23/91	Arduengo	525	207	
		4,920,188	4/24/90	Sakashita	526	196	
		4,515,724	5/7/85	Ritter	260	410	
		4,676,858	6/30/87	Ritter	156	307.3	
		4,385,153	5/24/83	Ritter	524	522	
		3,527,737	9/8/70	Masuhara et al.	260	78.5	
		4,921,921	5/1/90	Ritter	526	195	

FOREIGN PATENT DOCUMENTS

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OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

		Derwent 92-085634/11, J04029-393-A, Shinetsu Chem Ind KK
		Derwent 92-289585/35, JP04199694-A, Shinetsu Chem Ind Co Ltd.
		Derwent 94-164114/20, JP06107907-A, Nippon Zeon KK

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE *IF APPROPRIATE*

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES	NO

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

		Derwent 95-041525/06, JP06322324-A, Shinetsu Chem Ind Co Ltd.
		Derwent 95-049086/07, JP06330015-A, Nissan Motor Co Ltd.
		Derwent 97-529863/49, JP09208921-A, Shinetsu Chem Ind Co Ltd.

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October 14, 2003	unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE *IF APPROPRIATE*

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES	TRANSLATION NO

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

		Chemical Abstract, 128:218101s, Acrylic Adhesive Compositions, Kimura, JP 10-046,125
		Derwent 98-189554/17, JP10046126-A, Nippon Synthetic Chem Ind Co.
		Derwent 98-343543/30, JP10130612-A, Nippon Synthetic Chem Ind Co.

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U.S. PATENT DOCUMENTS

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OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

		Derwent 98-357757/31, JP10140119-A, Nippon Synthetic Chem Ind Co.
		Derwent 99-283642/24, JP11092593-A, Hitachi Chem Co. Ltd.
		Derwent 96-453820/45, RU2054022-C1, Adgeziv Co. Ltd.

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INFORMATION DISCLOSURE STATEMENT

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Sonnenschein, et al.	
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OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

		Chemical Abstract 116:195541w, Epoxy resin binder for commutator sheet mica, Ivanilova et al.
		Derwent 84-159009/26, DD207436-A, Veb Filmfab Wolfen
		Derwent 90-332394/44, J02240130-A, Denki Kagaku Kogyo KK
		Derwent 1985-301176/48, SU 1155607, Kirakosyan, KII A
		Derwent 1990-332395, JP 02-240,131, Denki Kagaku Kogyo KK

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		5,935,711	8/10/99	Pocius et al.	428	421	

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		Love, Peter et al., "Polar Substituent Effects in Gas-Phase Lewis Acid-Base Equilibria. I. Intrinsic Basicity of Amines", J. Amer. Chem. Soc. (1968), 90(10), 2455-62 XP000982168, tables I, EX.5 columns 4 and 5
		Chemical Abstracts, Fujisawa, Seiichiro et al., "Dental Self-Curing Resins. XI. Characterization of Several Complexes of tri-n-butyl Borane as an Initiator" 73:88532, XP002160417-Abstract & Iyo Kizai Kenkyusho Hokoku, Tokyo Ika Shika Daigaku (1969), 3, pages 64-71
		Koester, Roland et al., "Boron compounds. XXVII. Borylation of several amino carboxylic acids", Justus Liebigs Ann, Chem. (1974), (1), 112-19 XP000982170 pages 112-113 (no translation provided)

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		5,690,780	11/25/97	Zharov et al.	156	332	

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		Chemical Abstracts, vol. 119, 1993, pg. 78, 119:74163c Acrylic Adhesive Composition and Organoborane Initiator System
		Derwent Abstract, 96-453820/45, ADGE=93.05.28, Adgeziv Co. Ltd., RU 2054022-C1
		Polymer Letters, Vol. 8, pp. 541-547 (1970) Polymerization of Methyl Methacrylate by Trialkiborane-Pyridine System

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		Journal of Organometallic Chemistry, Hoberg et al., 1976 118(1), C3-C5 (no translation provided)
		ZH. Obschch. Khim., Dorokhov et al., 1976, 46(5), pp. 1053-59

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		Derwent Abstract, 119:74163 CA, CA2061021; N.V. Merlo et al.

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